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Patent Number(s):

JP10023898-A

Title:

Preparation of N-acetyl:lactosamine derivatives in high yield, used in food - by action of Bifidobacterium on phenyl-beta-D-galacto:pyranoside derivative and a di:saccharide

Patent Assignee Name(s) and Code(s):

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Derwent Primary Accession Number:

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Abstract:

Preparation of N-acetyl:lactosamine derivatives comprises action of -galactosidase from a Bifidobacterium microorganism upon (a) a phenyl--D-galactopyranoside derivative or -D-galactopyranosyl compound and (b) a disaccharide having an N-acetylglucosamine at the non-reducing terminal, N-acetylglucosamine or N-acetyl glucosaminide to transfer the galactose residue of (a) to (b).

USE - The derivatives are main constituents of complex glycoproteins and glyco lipids and a bifidus growth factor and useful as a material for functional foods.

ADVANTAGE - The method provides safe products with a high yield and eliminates the need of control of the reaction time.

International Patent Classification:

C12P-019/26

Derwent Class:

D16 (Fermentation industry); D13 (Other foodstuffs and treatment); E13 (Heterocyclics)

Derwent Manual Code(s):

D03-H01T2; D05-A02C; E07-A02H

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